

MENU

SEARCH

INDEX

DETAIL

JAPANESE

BACK

NEXT

3 / 8

PATENT ABSTRACTS OF JAPAN

(11)Publication number : 10-007650
 (43)Date of publication of application : 13.01.1998

(51)Int.Cl. C07C381/12
 G03F 7/004
 H01L 21/027

(21)Application number : 08-307363 (71)Applicant : SHIN ETSU CHEM CO LTD
 NIPPON TELEGR & TELEPH CORP <NTT>
 (22)Date of filing : 01.11.1996 (72)Inventor : OSAWA YOICHI
 WATANABE SATOSHI
 TAKEMURA KATSUYA
 NAGURA SHIGEHIO
 TANAKA HARUYORI
 KAWAI YOSHIO

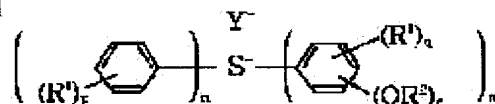
(30)Priority
 Priority number : 07309849 Priority date : 02.11.1995 Priority country : JP

(54) NEW SULFONIUM SALT AND CHEMICAL AMPLIFICATION POSITIVE RESIST MATERIAL

(57)Abstract:

PROBLEM TO BE SOLVED: To obtain the subject new compound suitable as a component of a chemical amplification positive resist material having high resolution and suitable for fine processing technology.

SOLUTION: This new compound is a sulfonium salt expressed by the formula (R¹ is an alkyl, an alkoxy or a dialkylamino; OR² is an acidunstable group; Y is a 2-20C straight, branched or cyclic alkyl, an arylsulfonate, etc.; (n) is an integer of 0-2; (m) is an integer of 1-3; n+m is 3; (r) is an integer of 1-5; (p) is an integer of 0-5; (q) is an integer of 0-4; q+r is an integer of 1-5), having at least one acid-unstable group on the phenyl group in the molecule and having an alkyl or arylsulfonate group substituted with a straight, branched or cyclic electron-attracting group, e.g. 2,2,2-trifluoroethanesulfonic acid (4-tbutoxyphenyl) diphenylsulfonium salt. The compound forms a chemical amplification positive resist material together with an organic solvent, an alkali-soluble resin and an acid generating agent.



LEGAL STATUS

[Date of request for examination]

07.10.2003

[Date of sending the examiner's decision of rejection]

[Kind of final disposal of application other than the
examiner's decision of rejection or application converted
registration]

[Date of final disposal for application]

[Patent number]

[Date of registration]

[Number of appeal against examiner's decision of
rejection]

[Date of requesting appeal against examiner's decision of
rejection]

[Date of extinction of right]